```
                                          9                  18                 27                  36                 45                  54
5' GTA AAG CTC   CCA TCC TGC   CCT GAC TCT   GTC ATG GGC   ACC AGG CTC   CTC TGC TGG
                                                            M   G   T     R   L   L     C   W

            63                 72                 81                  90                 99                 108
   GCA GCC CTG   TGC CTC CTG   GGG GCA GAT   CAC ACA GGT   GCT GGA GTC   TCC CAG ACC
   A   A   L     C   L   L     G   A   D     H   T   G     A   G   V     S   Q   T

            117                126                135                 144                153                162
   CCC AGT AAC   AAG GTC ACA   GAG AAG GGA   AAA GAT GTA   GAG CTC AGG   TGT GAT CCA
   P   S   N     K   V   T     E   K   G     K   D   V     E   L   R     C   D   P

            171                180                189                 198                207                216
   ATT TCA GGT   CAT ACT GCC   CTT TAC TGG   TAC CGA CAA   AGC CTG GGG   CAG GGC CCA
   I   S   G     H   T   A     L   Y   W     Y   R   Q     S   L   G     Q   G   P

            225                234                243                 252                261                270
   GAG TTT CTA   ATT TAC TTC   CAA GGC ACG   GGT GCG GCA   GAT GAC TCA   GGG CTG CCC
   E   F   L     I   Y   F     Q   G   T     G   A   A     D   D   S     G   L   P

            279                288                297                 306                315                324
   AAC GAT CGG   TTC TTT GCA   GTC AGG CCT   GAG GGA TCC   GTC TCT ACT   CTG AAG ATC
   N   D   R     F   F   A     V   R   P     E   G   S     V   S   T     L   K   I

            333                342                351                 360                369                378
   CAG CGC ACA   GAG CAG GGG   GAC TCA GCC   GCG TAT CTC   CGT GCC GGC   GTT GCG GCG
   Q   R   T     E   Q   G     D   S   A     A   Y   L     R   A   G     V   A   A
```

FIGURE 1A

```
      387           396           405           414           423           432
GGA TGG AGC TCC TAC AAT GAG CAG TAT TTT GGC CCA GGC ACC CGG CTG ACA GTG
 G   W   S   S   Y   N   E   Q   Y   F   G   P   G   T   R   L   T   V

      441           450           459           468           477           486
CTA GAG GAC CTG AAA AAC GTG TTC CCA CCC GAG GTC GCT GTG TTT GAG CCA TCA
 L   E   D   L   K   N   V   F   P   P   E   V   A   V   F   E   P   S

      495           504           513           522           531           540
GAA GCA GAG ATC TCC CAC ACC CAA AAG GCC ACA CTG GTG TGC CTG GCC ACA GGC
 E   A   E   I   S   H   T   Q   K   A   T   L   V   C   L   A   T   G

      549           558           567           576           585           594
TTC TAC CCC GAC CAC GTG GAG CTG AGC TGG TGG GTG AAT GGG AAG GAG GTG CAC
 F   Y   P   D   H   V   E   L   S   W   W   V   N   G   K   E   V   H

      603           612           621           630           639           648
AGT GGG GTC AGC ACA GAC CCG CAG CCC CTC AAG GAG CAG CCC GCC CTC AAT GAC
 S   G   V   S   T   D   P   Q   P   L   K   E   Q   P   A   L   N   D

      657           666           675           684           693           702
TCC AGA TAC TGC CTG AGC CGC CTG AGG GTC TCG GCC ACC TTC TGG CAG AAC
 S   R   Y   C   L   S   R   L   R   V   S   A   T   F   W   Q   N

      711           720           729           738           747           756
CCC CGC AAC CAC TTC CGC TGT CAA GTC CAG TTC TAC GGG CTC TCG GAG AAT GAC
 P   R   N   H   F   R   C   Q   V   Q   F   Y   G   L   S   E   N   D
```

FIGURE 1B

765 774 783 792 801 810
GAG TGG ACC CAG GAT AGG GCC AAA CCT GTC ACC CAG ATC GTC AGC GCC GAG GCC
E   W   T   Q   D   R   A   K   P   V   T   Q   I   V   S   A   E   A

819 828 837 846 855 864
TGG GGT AGA GCA GAC TGT GGC TTC ACC TCC GAG TCT TAC CAG CAA GGG GTC CTG
W   G   R   A   D   C   G   F   T   S   E   S   Y   Q   Q   G   V   L

873 882 891 900 909 918
TCT GCC ACC ATC CTC TAT GAG ATC TTG CTA GGG AAG GCC ACC TTG TAT GCC GTG
S   A   T   I   L   Y   E   I   L   L   G   K   A   T   L   Y   A   V

927 936 945 954 963 972
CTG GTC AGT GCC CTC CTG ATG GCC ATG GTC AAG AGA AAG AGG GAT TCC AGA GGC
L   V   S   A   L   L   M   A   M   V   K   R   K   R   D   S   R   G

981 990 999 1008 1017 1026
TAG CTC CAA AAC CAT CCC AGG TCA TTC TTC ATC CTC ACC CAG GAT TCT CCT GTA .

1035 1044 1053 1062 1071 1080
CCT GCT CCC AAT CTG TGT TCC TAA AAG TGA TTC TCA CTC TGC TTC TCA TCT CCT

1089 1098 1107 1116 1125 1134
ACT TAC ATG AAT ACT TCT CTC TTT TTT CTG TTT CCC TGA AGA TTG AGC TCC CAA

FIGURE 1C

```
      1143      1152      1161      1170      1179      1188
CCC CCA AGT ACG AAA TAG GCT AAA CCA ATA AAA AAT TGT GTG TTG GGC CTG GTT

      1197
GCA AAA AAA AAA  3'
```

FIGURE 1D

```
1    MGTRLLCWAALCLLGADHTGAGVSQTPSNKVTEKGKDVEL  983910
1    MGTSLLCWMALCLLGADHADTGVSQNPRHKITKRGQNVTF  GI 1100182
1    MGTSLLCWMALCLLGADHADTGVSQNPRHNITKRGQNVTF  GI 339012

41   RCDPISGHTALYWYRQSLGQGPEFLIYFQGTGAADDSGLP  983910
41   RCDPISEHNRLYWYRQTLGQGPEFLTYFQNEAQLEKSRLL  GI 1100182
41   RCDPISEHNRLYWYRQTLGQGPEFLTYFQNEAQLEKSRLL  GI 339012

81   NDRFFAVRPEGSVSTLKIQRTEQGDSAAYLRAGVAAGWSS  983910
81   SDRFSAERPKGSFSTLEIQRTEQGDSAMYLCASS-PGTS-  GI 1100182
81   SDRFSAERPKGSFSTLEIQRTEQGDSAMYLCASSLAGLN-  GI 339012

121  YNEQYFGPGTRLTVLEDLKNVFPPEVAVFEPSEAEISHTQ  983910
119  -YEQYFGPGTRLTVTEDLKNVFPPEVAVFEPSEAEISHTQ  GI 1100182
120  -QQHFGDGTRLSILEDLNKVFPPEVAVFEPSEAEISHTQ  GI 339012

161  KATLVCLATGFYPDHVELSWWVNGKEVHSGVSTDPQPLKE  983910
158  KATLVCLATGFYPDHVELSWWVNGKEVHSGVSTDPQPLKE  GI 1100182
159  KATLVCLATGIFPDHVELSWWVNGKEVHSGVSTDPQPLKE  GI 339012

201  QPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSE  983910
198  QPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSE  GI 1100182
199  QPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSE  GI 339012
```

FIGURE 2A

```
241  N D E W T Q D R A K P V T Q I V S A E A W G R A D C G F T S E S Y Q Q G V L S A   983910
238  N D E W T Q D R A K P V T Q I V S A E A W G R A D C G F T S E S Y Q Q G V L S A   GI 1100182
239  N D E W T Q D R A K P V T Q I V S A E A W G R A D C G F T S V S Y Q Q G V L S A   GI 339012

281  T I L Y E I L L G K A T L Y A V L V S A L V L M A M V K R K D       983910
278  T I L Y E I L L G K A T L Y A V L V S A L V L M A M V K R K D S R G  GI 1100182
279  T I L Y E I L L G K A T M Y A V L V S A L V L M A M V K R K D F      GI 339012
```

FIGURE 2B